



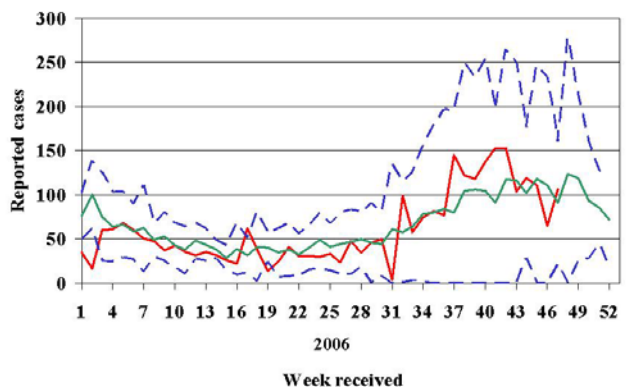
## WEEKLY DENGUE SURVEILLANCE REPORT CDC DENGUE BRANCH & PUERTO RICO DEPARTMENT OF HEALTH

November 12 to November 18 of 2006 (week 47)

Very preliminary data as of November 29, 2006

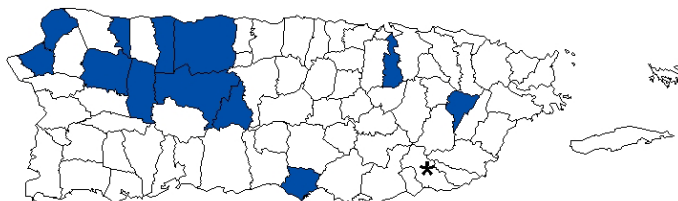


### Number of reported cases per week, 2006



The level of reporting during week 47 is over the average for the five reference years (average for the years 2000-2004  $\pm$  2 standard deviations).

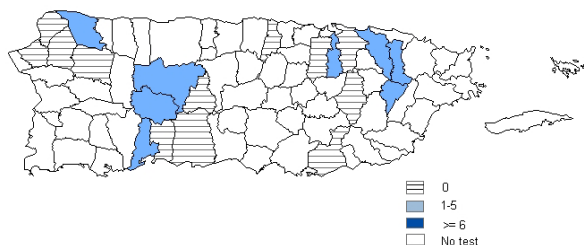
### Municipalities with a significant increase in reported dengue cases during weeks 44 to 47



\*Patillas is the site of a special dengue project and is not part of this weekly surveillance report

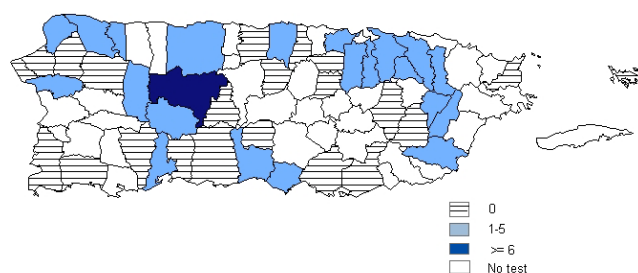
The following municipalities have a significant increase in cases in the last four weeks compared to what is expected when dengue activity level is minimal (four weeks average during the months of April, May, and June, 1989-93) (reported cases/expected): **Aguada (7/1), Aguadilla (7/1), Arecibo (15/4), Guaynabo (18/9), Hatillo (3/1), Jayuya (4/1), Juncos (16/2), Lares (9/1), Quebradillas (3/1), San Sebastián (8/1), Santa Isabel (5/1) and Utuado (28/1).**

### Positivity for anti-dengue IgM antibody detection, week 47



Positivity for all samples tested for anti-dengue IgM antibody was 26% (8 positive samples/29 processed samples). **There was positivity in 10% (8) of 78 municipalities.** Samples processed for anti-dengue IgM during the current week indicate dengue transmission in **Adjuntas, Canóvanas, Carolina, Guayanilla, Guaynabo, Isabela, Juncos and Utuado.**

### Positivity for anti-dengue IgM antibody detection, weeks 44 to 47



There was positivity in 28% (22) of the 78 municipalities. Samples processed for anti-dengue IgM during the last four weeks indicate dengue transmission in **Adjuntas, Aguadilla, Añasco, Arecibo, Bayamón, Canóvanas, Carolina, Guayanilla, Guaynabo, Isabela, Juana Díaz, Juncos, Lares, Las Piedras, Quebradillas, San Juan, Santa Isabel, Toa Baja, Trujillo Alto, Utuado, Vega Baja and Yabucoa.**

## Positivity for dengue virus isolation

09/24/2006 - 11/18/2006



**Dengue 1**



**Dengue 2**



**Dengue 3**

**The following are the virus isolation results for the last two months:**

**Dengue 1:** Río Grande

**Dengue 2:** Adjuntas, Aguadilla, Arecibo, Barceloneta, Bayamón, Caguas, Camuy, Canóvanas, Carolina, Coamo, Fajardo, Guayama, Guayanilla, Guaynabo, Gurabo, Humacao, Isabela, Juana Díaz, Juncos, Lares, Las Piedras, Maunabo, Mayagüez, Morovis, San Juan, Santa Isabel, Toa Baja, Trujillo Alto and Utuado.

**Dengue 3:** Bayamón, Caguas, Cataño, Cayey, Guaynabo, Humacao, Juncos, Las Piedras, San Juan, San Lorenzo and Trujillo Alto.

### **Level of dengue activity:**

We have five activity levels (no activity, sporadic, local, regional, and widespread), adapted from the CDC influenza web page (<http://www.cdc.gov/flu/weekly/fluactivity.htm>), but have modified the definition for level of activity to better reflect the level of dengue activity in Puerto Rico. **We consider the activity level in a region as a dengue outbreak if one or more municipalities within the region have dengue cases positive by the anti-dengue IgM antibody detection test during the week and if two or more municipalities within that same region have a significant increase in dengue cases reported.**

**No activity:** No laboratory-confirmed cases of dengue and no significant increase in the number of cases reported.

**Sporadic:** Small numbers (1-5) of laboratory-confirmed dengue cases but there is no significant increase in the number of dengue cases reported.

**Local:** Significant increase in the number of dengue cases reported and recent laboratory-confirmed dengue cases in a single region of Puerto Rico.

**Regional:** Significant increase in the number of dengue cases reported and recent laboratory-confirmed dengue cases in at least 2 but less than half the regions of Puerto Rico.

**Widespread:** Significant increase in the number of dengue cases reported and recent laboratory-confirmed dengue cases in at least half the regions of Puerto Rico.

**For this week the level of dengue activity is REGIONAL since the Aguadilla, Arecibo and Ponce regions have laboratory-positive cases and a significant increase in cases reported from 2 or more municipalities within the same region.**



### **Additional information:**

From January 1 to November 18 of 2006, three laboratory-positive fatal cases have been reported. Four suspected dengue hemorrhagic cases have been reported of which 2 cases are positive and 2 have indeterminate test results.

According to data provided by Dr. Marta Patricia Cano, Director of the Environmental Hygiene Program, 82 suspected dengue cases were reported during week 47 of 2006. From January 1 to November 18, 2006 2,723 suspected dengue cases were reported.

For general information about dengue go to: [www.cdc.gov/ncidod/dvbid/dengue/index.htm](http://www.cdc.gov/ncidod/dvbid/dengue/index.htm)